

CLAIMS

1. (presently amended) A structural component made of long-fiber-reinforced thermoplastic material with integrated continuous fiber-reinforcements, the component comprising:

at least three separate, single individually integrated, shaped continuous-fiber-profiles, having a lengthwise extension and ~~which~~ being separated from each other,

the at least three single continuous-fiber-profiles along their length are extending into different directions with a distance between each other and are running together at a location and are forming a non-flat connecting area,

the at least three single continuous-fiber-profiles, at the location where they run together, defining a three-dimensionally developed intersection point,

wherein at the intersection point at least a first continuous-fiber-profile lies in an upper plane of the intersection point, at least a second continuous-fiber-profile lies a lower plane of the intersection point, and wherein at least a third continuous-fiber-profile with a vertical orientation is located between the first and second continuous-fiber-profiles;

wherein from the intersection point the first and the second continuous-fiber-profiles along their length are extending into a first direction and the third continuous-fiber-profile along its length is extending into a different second direction,

wherein the continuous-fiber-profiles are joined together by the long-fiber-reinforced thermoplastic material at the intersection point.

2. (previously presented) The structural component of claim 1, characterised in that shapes of the long-

fiber-reinforced thermoplastic material, or shapes of the continuous-fiber profiles are forming points of introduction of external force.

3. (original) The structural component of claim 1, characterised in that the three-dimensional intersection points are developed as "X"-, "T"- or "L"-shaped.
4. (canceled)
5. (original) The structural component of claim 1, characterised in that the continuous-fiber-profiles are built up out of layers with differing fiber orientations.
6. (original) The structural component of claim 1, characterised in that the long-fiber-reinforced thermoplastic mass comprises an average fiber length of at least 3 mm.
7. (original) The structural component of claim 1, characterised in that the continuous-fiber-profiles comprise a continuous fiber reinforcement made out of glass-, carbon- or aramide fibers.
8. (previously presented) The structural component of claim 1, characterised in that the thermoplastic material of the long-fiber-reinforced thermoplastic mass ~~6)~~ and of the continuous-fiber-profiles consists of partially crystalline polymers selected from the set consisting of polypropylene, polyethylene-terephthalate, polybutylene-terephthalate and polyamide.
9. (previously presented) The structural component of claim 1, characterised in that the continuous-fiber profiles comprise a three-dimensional profile ~~shaping~~.
10. (original) The structural component of claim 1, characterised in that the continuous-fiber-profiles comprise a bend, a twist, a fold or a surface structuring in longitudinal direction.
11. (original) The structural component of claim 1, characterised in that the continuous-fiber-profiles comprise differing cross-sectional shapes.

12. (previously presented) The structural component of claim 1, characterised in that the continuous-fiber-profiles are extending between points of introduction of external force.
13. (previously presented) The structural component of claim 1, characterised in that a continuous-fiber-profile with a positioning shoulder, a tensile- and compressive force zone on top and underneath as well as a thrust zone in between is formed, which is positioned in a rib or in a crimp wall of the structural component, and wherein the tensile- and compressive force zones are thicker than the thrust zone.
14. (original) The structural component of claim 1, characterised in that the continuous-fiber-profiles form a moment-load lever structure with a T-shaped or L-shaped three-dimensional intersection point.
15. (original) The structural component of claim 1, characterised in that the structural component forms a single seat back with a belt connection.
16. (original) The structural component of claim 1, characterised in that the structural component forms a two-thirds rear seat back with belt connection and lock.
17. (original) The structural component of claim 1, characterised in that the structural component forms a seat shell or a cabin floor.
18. (original) The structural component of claim 1, characterised in that the structural component forms a supporting structure of a car door with integrated side-crash protection.
19. (original) The structural component of claim 1, characterised in that the structural component is assembled out of at least two parts welded together.
20. (canceled)